APPENDIX F

GRM Development Solutions provides multi-disciplinary consultancy services, UK-wide:

- Geotechnical and Geo-environmental Services
- Civil and Infrastructure Services
- Structural Engineering Services
- Construction Management
- Site Services

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384708
402471

Sampling			Properties		Strata			
Depth	Type	Cu kPa	w%	SPT N	Description	Depth	Level	Legend
					MADE GROUND: Tarmacadam over stone sets over concrete.	GL		
					MADE GROUND: Comprising soft grey brown silty sandy clay with some fine gravel.	0.70		
1.00-1.45	CB			26		0.90		
1.00-1.50	B							
					MADE GROUND: Comprising brown and black very clayey coarse SAND with much angular fine to medium gravel of predominantly ash.			
2.00-2.45	CB			39				
2.00-2.50	B							
3.00-3.45	SD			7	Loose brown and grey very silty very clayey fine to medium SAND with traces of sub-rounded fine to medium gravel above 3.50m.	2.90		
3.00-3.50	B							
4.00-4.50	SD			9				
4.00-4.50	B							
5.00-5.45	SD			6				
5.00-5.50	B							
5.80-6.25	SD			8	Loose light brown silty clayey fine medium to coarse SAND with occasional thin bands of grey silt.	5.80		
5.80-6.30	B							
6.80-7.25	SD			7				
6.80-7.30	B							
7.80-8.25	SD			9				
7.80-8.30	B							
8.50-8.95	CB			26	Soft grey silty sandy CLAY with some sub-rounded fine medium to coarse gravel.	8.50		
8.50-9.00	B							
9.50-9.95	CB			44				
9.50-10.00	B							
					End of Borehole	10.00		

Drilling

Type	From	To	Size	Fluid
Shell and Auger	GL	10.00	0.15	-

Groundwater

Struck	Behaviour	Sealed	Date	Hole	Cased	Water
2.10	Rose to 2.80m	-	21.3.88	10.00	8.50	2.80

Remarks Service Location Plan excavated to 1.00m.

Borehole Record

exploration associates

Project Manchester City Council
Delanays Road
Sewer Renewal Road

Contract E6531/16

Borehole 9 (1 of 1)

384860
402605

Sampling					Strata			
Depth	Type	Cu kPa	w%	SPT N	Description	Depth	Level	Legend
					MADE GROUND: Tarmacadam over sets over concrete.	GL		
					MADE GROUND: Comprising medium dense brown silty clayey fine medium to coarse SAND with much angular fine medium to coarse gravel and cobbles of predominantly bricks.	0.50		
1.00-1.45	CB			11				
1.50-1.95	U	31	26	30	Soft red brown sandy clayey SILT with a trace of angular fine to medium gravel.	1.50 1.75		
2.00	D							
2.00-2.45	SD			17	Medium dense red brown very silty slightly clayey fine to medium SAND with a trace of angular fine gravel.			
2.00-2.50	B							
3.00-3.45	SD			18				
3.00-3.45	B							
4.00-4.45	SD			13	becoming with some sub-rounded fine medium to coarse gravel at 3.90m.			
4.00-4.50	B							
4.70-5.15	U		10	150	Stiff dark brown very silty slightly sandy CLAY with a little angular fine gravel and frequent pockets of fine to medium sand.	4.70		
5.20	D							
6.20-6.65	SD			115				
6.70	D							
7.00-7.45	SD			96/150				
					End of Borehole	7.50		

Drilling					Groundwater						
Type	From	To	Size	Fluid	Struck	Behaviour	Sealed	Date	Hole	Cased	Water
Cable Percussion	GL	7.50	0.15	-	1.50 3.00	Slight Seepage Medium inflow	- -	22.3.88	9.50	4.90	3.00

Remarks Service Location Pit excavated to 1.00m. Piezometer installed at 4.00m

Borehole Record

exploration associates

Project Manchester City Council
Delaunays Road
Sewer Renewal Scheme

Contract E6531/16

Borehole 5 (1 of 1)

384820
402544

Sampling			Properties		Strata			
Depth	Type	Cu kPa	w%	SPT N	Description	Depth	Level	Legend
					MADE GROUND: Tarmacadam over concrete	GL		
					MADE GROUND: Comprising brown silty sandy clay with much angular fine medium to coarse gravel and cobbles.	0.30		
					Soft dark brown silty organic CLAY with pockets of dark brown amorphous peat.	1.00		
1.50-1.95	U	18	16	10	Soft grey brown silty sandy CLAY with traces of decayed vegetation and a little angular fine to medium gravel.	1.50		
2.00	D							
2.00-2.45	SD			7				
2.50-2.95	U	115	12	54	Stiff to very stiff dark brown silty sandy CLAY, with a little angular fine to medium gravel.	2.50		
3.00	D							
3.00-3.45	SD			28				
3.50-3.95	U	50	15	63				
4.00	D							
4.00-4.45	SD			36				
4.50-4.95	U			82				
5.00-5.45	SD			38				
5.50-5.95	U			93				
6.00-6.45	SD			45				
6.50-6.95	U			110				
					End of Borehole	7.00		

Drilling

Type	From	To	Size	Fluid
Cable Percussion	GL	7.00	0.15	–

Groundwater

Struck	Behaviour	Sealed	Date	Hole	Cased	Water
DRY		DRY	26.3.88	4.00	3.00	DRY
			28.3.88	4.00	3.00	DRY
			28.3.88	7.00	3.00	DRY

Remarks Service Location Pit excavated to 1.50m.

Borehole Record

exploration associates

Project Manchester City Council
Delaunays Road
Sewer Renewal Scheme

Contract E6531/16

Borehole 7 (1 of 1)

APPENDIX G

GRM Development Solutions provides multi-disciplinary consultancy services, UK-wide:

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- Civil and Infrastructure Services
- Structural Engineering Services
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- Site Services

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Enviro Insight

Address:	**North Manchester General Hospital, M8 5RB,**
Date:	**2 Oct 2018**
Reference:	**EMS-503125_677285**
Client:	**EmapSite**

NW N NE

W E

SW S SE



Aerial Photograph Capture date:	11-Jun-2015
Grid Reference:	384885,402292
Site Size:	0.09ha

Report Reference: EMS-503125_677285
Client Reference: EMS_503125_677285

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Overview of Findings

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Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	6	4	33	106
1.2 Additional Information – Historical Tank Database	10	0	12	206
1.3 Additional Information – Historical Energy Features Database	0	0	20	38
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	1	0
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	0	0	19	51

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	1
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	1	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	8	0
2.1.8 Records of Licensed Discharge Consents	0	0	0	2
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	0	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	1

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	1	4	4
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	5	12
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	1	2

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	13	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site	Identified
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site	Identified

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	8	0
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	#250GWV #	#500GWV #	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

	0-500m					
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	No	No	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	0	4	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	No	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Enviroment Agency Zone 2 floodplains within 250m of the study site	None identified
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	None identified
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low
7.4 Flood Defences within 250m of the study site	None identified
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified
7.6 Areas used for Flood Storage within 250m of the study site	None identified
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Limited potential
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	Low

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	2
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	3
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	1	0	0	0	1	0
8.14 Records of Green Belt land	0	0	0	0	0	1

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence	Very Low
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Negligible
9.1.2 Maximum Landslides hazard rating identified on the study site	Very Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Negligible
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	None identified
10.3 Brine affected areas within 75m of the study site	None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

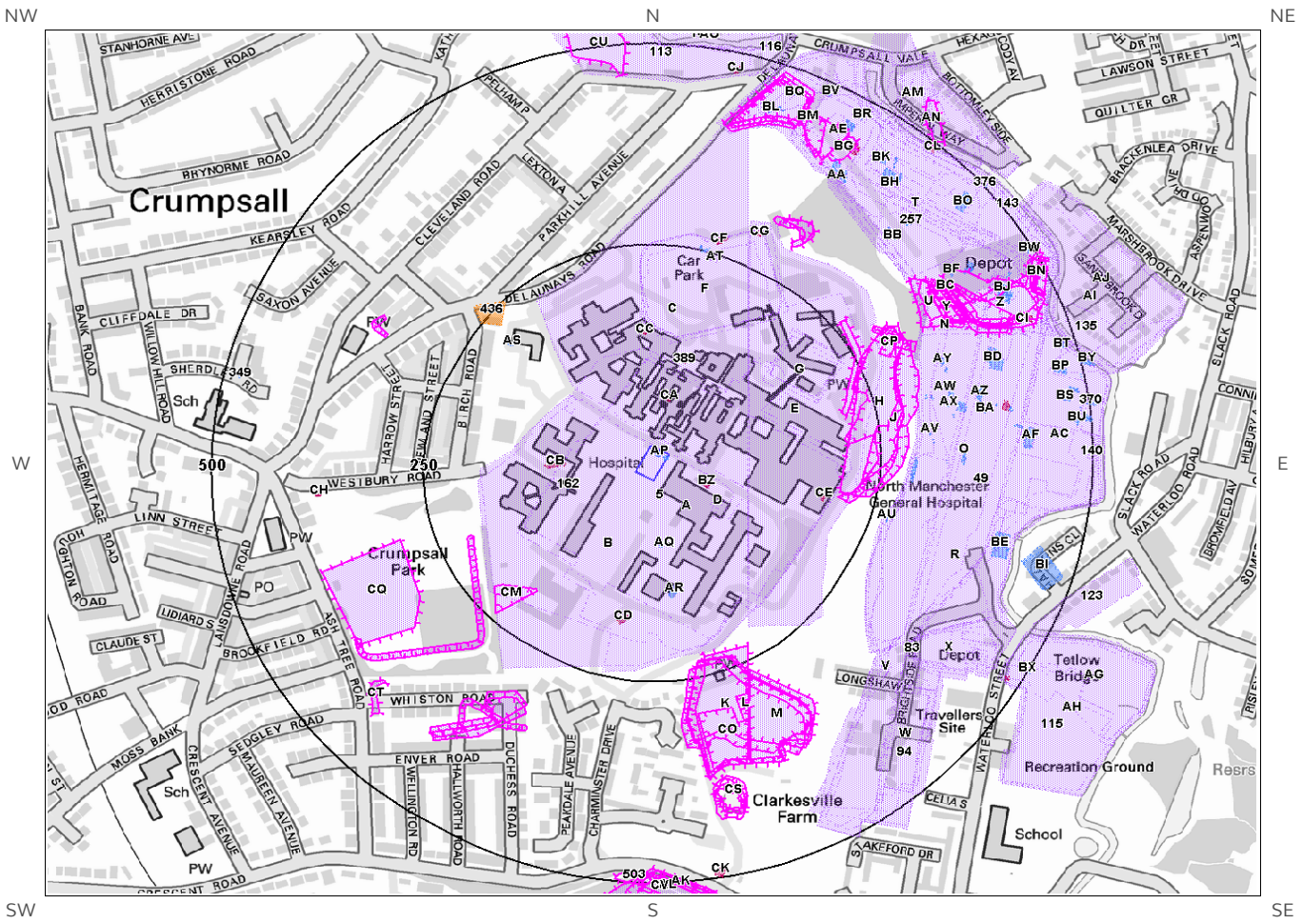
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 149

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Unspecified Workhouse	1906
2A	0	On Site	Unspecified Workhouse	1891
3B	0	On Site	Hospital	1956
4B	0	On Site	Hospital	1968
5	0	On Site	Hospital	1923
6B	0	On Site	Hospital	1977
7C	12	NE	Hospital	1956
8C	12	NE	Hospital	1968
9C	12	NE	Hospital	1985
10C	12	NE	Hospital	1977
11D	72	SE	Mortuary	1915
12D	76	SE	Mortuary	1923
13AQ	78	S	Chimney	1968
14E	93	E	Hospital	1975
15E	93	E	Hospital	1980
16E	94	E	Hospital	1988
17F	128	N	Unspecified Workhouse	1891
18F	136	N	Unspecified Workhouse	1906
19F	138	N	Hospital	1938
20F	138	N	Hospital	1933
21G	144	NE	Hospital	1891
22G	156	NE	Hospital	1906
23G	166	NE	Hospital	1915
24CM	187	SW	Unspecified Pit	1985
25H	206	E	Unspecified Ground Workings	1923
26H	207	E	Unspecified Heap	1915
27H	207	E	Unspecified Heap	1933
28I	207	SW	Unspecified Ground Workings	1915
29I	207	SW	Unspecified Ground Workings	1906
30CN	211	E	Unspecified Ground Workings	1956
31J	223	E	Unspecified Ground Workings	1975

32J	223	E	Unspecified Ground Workings	1980
33J	223	E	Unspecified Ground Workings	1966
34J	223	E	Unspecified Ground Workings	1956
35K	226	S	Cemetery	1968
36K	226	S	Cemetery	1977
37K	226	S	Cemetery	1956
38L	230	S	Cemetery	1915
39L	230	S	Cemetery	1906
40K	232	S	Cemetery	1933
41K	232	S	Cemetery	1938
42K	237	S	Cemetery	1891
43AT	238	N	Chimney	1968
44M	259	SE	Cemetery	1988
45M	259	SE	Cemetery	1980
46M	259	SE	Cemetery	1975
47AW	263	E	Unspecified Commercial/Industrial	1956
48N	265	E	Unspecified Commercial/Industrial	1938
49	266	E	Unspecified Commercial/Industrial	1933
50N	267	E	Unspecified Commercial/Industrial	1975
51N	267	E	Unspecified Commercial/Industrial	1980
52N	267	E	Unspecified Commercial/Industrial	1966
53CO	270	SE	Cemetery	1985
54O	272	E	Railway Sidings	1933
55O	274	E	Railway Sidings	1938
56CP	278	NE	Filter Beds	1906
57CQ	290	W	Brick Works	1891
58P	297	NE	Refuse Heap	1975
59Q	307	SW	Unspecified Ground Workings	1915
60P	308	NE	Refuse Heap	1956
61P	308	NE	Refuse Heap	1966
62S	311	E	Railway Sidings	1956
63Q	315	SW	Unspecified Ground Workings	1923
64R	317	E	Railway Sidings	1975
65R	317	E	Railway Sidings	1980
66S	324	E	Railway Sidings	1966
67T	331	NE	Chemical Works	1923
68O	334	E	Unspecified Commercial/Industrial	1956
69U	337	NE	Refuse Heap	1915

70T	337	NE	Unspecified Commercial/Industrial	1933
71T	337	NE	Chemical Works	1915
72T	337	NE	Unspecified Works	1906
73CR	337	NW	Unspecified Ground Workings	1906
74Q	340	SW	Unspecified Ground Workings	1906
75U	351	NE	Filter Beds	1906
76BH	353	NE	Chemical Works	1891
77V	354	SE	Railway Building	1975
78V	354	SE	Railway Building	1980
79V	354	SE	Railway Building	1966
80V	358	SE	Railway Building	1938
81W	363	SE	Unspecified Works	1975
82W	363	SE	Unspecified Works	1980
83	363	SE	Railway Building	1938
84Y	365	NE	Filter Bed	1923
85X	365	SE	Engineering Works	1915
86X	366	SE	Unspecified Works	1975
87X	369	SE	Engraving Works	1923
88X	370	SE	Unspecified Works	1966
89Y	370	NE	Filter Bed	1915
90Y	371	NE	Filter Beds	1906
91AE	382	NE	Unspecified Commercial/Industrial	1851
92Z	386	NE	Refuse Heap	1923
93Z	386	NE	Refuse Heap	1915
94	389	SE	Unspecified Commercial/Industrial	1966
95AA	390	NE	Unspecified Tanks	1933
96AB	390	NE	Refuse Heap	1933
97W	390	SE	Railway Building	1938
98AA	390	NE	Unspecified Tanks	1938
99AB	391	NE	Unspecified Heap	1906
100AB	392	NE	Refuse Heap	1938
101CT	394	SW	Unspecified Ground Workings	1906
102AC	395	E	Unspecified Works	1975
103AC	395	E	Unspecified Works	1980
104AC	395	E	Unspecified Works	1966
105AA	396	NE	Unspecified Tanks	1938
106AD	405	NE	Railway Sidings	1906
107AD	406	NE	Railway Sidings	1915
108AE	408	NE	Unspecified Pit	1891
109BG	413	NE	Unspecified Heap	1891
110	414	NE	Railway Sidings	1923
111AF	419	E	Unspecified Tanks	1938

112AF	419	E	Unspecified Tanks	1933
113	453	N	Unspecified Mills	1906
114CU	461	N	Unspecified Ground Workings	1906
115	470	SE	Unspecified Works	1915
116	474	N	Railway Sidings	1988
117AH	474	SE	Unspecified Mills	1933
118AG	474	SE	Unspecified Mills	1923
119AG	475	SE	Unspecified Mills	1966
120AH	475	SE	Unspecified Mills	1938
121AI	475	E	Unspecified Works	1891
122BN	475	NE	Unspecified Heap	1906
123	478	SE	Rope Walk	1938
124AG	481	SE	Unspecified Mills	1915
125AI	482	E	Unspecified Works	1923
126AN	482	NE	Unspecified Works	1891
127CV	483	S	Unspecified Ground Workings	1956
128AL	483	S	Unspecified Ground Workings	1968
129AJ	484	E	Unspecified Commercial/Industrial	1933
130AJ	484	E	Unspecified Commercial/Industrial	1915
131AM	484	NE	Dye Works	1851
132AJ	485	E	Unspecified Commercial/Industrial	1938
133AK	485	S	Unspecified Ground Workings	1977
134AK	485	S	Unspecified Ground Workings	1985
135	486	E	Bleach Works	1851
136AL	490	S	Unspecified Heap	1938
137AM	490	NE	Dye Works	1923
138AK	492	S	Unspecified Heap	1933
139AN	493	NE	Dye Works	1923
140	493	E	Unspecified Tanks	1938
141AO	494	N	Logwood Mill	1851
142AO	496	N	Unspecified Mills	1891
143	496	NE	Railway Sidings	1906
144AM	497	NE	Dye Works	1915
145AM	497	NE	Unspecified Commercial/Industrial	1933
146AN	497	NE	Dye Works	1915
147AN	497	NE	Unspecified Commercial/Industrial	1933
148	498	N	Unspecified Mills	1923
149AO	498	N	Unspecified Mill	1915

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 228

ID	Distance (m)	Direction	Use	Date
150AP	0	On Site	Tanks	1994
151AP	0	On Site	Tanks	1992
152AP	0	On Site	Tanks	1992
153AP	0	On Site	Tanks	1994
154AP	0	On Site	Tanks	1973
155AP	0	On Site	Tanks	1973
156AP	0	On Site	Tanks	1986
157AP	0	On Site	Tanks	1986
158AP	0	On Site	Tanks	1998
159AP	0	On Site	Tanks	1998
160AQ	79	S	Unspecified Tank	1932
161AQ	79	S	Unspecified Tank	1922
162	80	W	Unspecified Tank	1893
163AR	132	S	Tanks	1992
164AR	132	S	Tanks	1994
165AR	132	S	Tanks	1998
166AS	204	NW	Unspecified Tank	1992
167AS	204	NW	Unspecified Tank	1994
168AS	204	NW	Unspecified Tank	1998
169AS	205	NW	Unspecified Tank	1986
170AT	248	N	Tanks	1973
171AT	249	N	Tanks	1984
172AT	254	N	Tanks	1973
173AT	254	N	Tanks	1984
174AU	266	E	Unspecified Tank	1951
175AU	266	E	Unspecified Tank	1968
176AU	268	E	Unspecified Tank	1951
177S	286	E	Tanks	1968
178S	286	E	Tanks	1951
179S	287	E	Unspecified Tank	1951
180S	287	E	Unspecified Tank	1968
181S	287	E	Tanks	1951
182S	288	E	Tanks	1951
183AV	308	E	Tanks	1951
184AV	308	E	Tanks	1968
185AV	308	E	Tanks	1951
186AW	310	E	Unspecified Tank	1951

187AW	311	E	Unspecified Tank	1951
188AW	311	E	Unspecified Tank	1968
189AV	311	E	Unspecified Tank	1951
190AV	311	E	Unspecified Tank	1968
191AV	312	E	Unspecified Tank	1951
192AW	317	E	Unspecified Tank	1932
193O	327	E	Unspecified Tank	1968
194O	327	E	Unspecified Tank	1951
195O	328	E	Unspecified Tank	1951
196AX	333	E	Unspecified Tank	1983
197AX	338	E	Unspecified Tank	1951
198AX	338	E	Unspecified Tank	1951
199AX	338	E	Unspecified Tank	1968
200AX	338	E	Unspecified Tank	1951
201AX	338	E	Unspecified Tank	1968
202AX	338	E	Unspecified Tank	1951
203AY	340	E	Tanks	1951
204AY	340	E	Tanks	1968
205AY	341	E	Unspecified Tank	1932
206AY	341	E	Tanks	1951
207AX	344	E	Tanks	1983
208O	345	E	Unspecified Tank	1951
209O	345	E	Unspecified Tank	1968
210O	346	E	Unspecified Tank	1951
211AX	346	E	Unspecified Tank	1951
212AW	347	E	Unspecified Tank	1968
213AW	347	E	Unspecified Tank	1951
214AZ	370	E	Unspecified Tank	1932
215AZ	371	E	Tanks	1951
216AZ	371	E	Tanks	1968
217BA	372	E	Unspecified Tank	1951
218BA	372	E	Unspecified Tank	1983
219AZ	372	E	Unspecified Tank	1968
220BB	374	NE	Tanks	1951
221BB	375	NE	Tanks	1968
222BB	375	NE	Tanks	1951
223BB	378	NE	Tanks	1951
224BB	381	NE	Tanks	1951
225BB	381	NE	Tanks	1951
226Y	384	NE	Unspecified Tank	1951
227BC	384	NE	Tanks	1951
228BC	384	NE	Tanks	1968
229Y	385	NE	Unspecified Tank	1968
230Y	385	NE	Unspecified Tank	1951
231AZ	391	E	Unspecified Tank	1951
232BC	391	NE	Tanks	1951

233BC	391	NE	Tanks	1951
234AZ	391	E	Unspecified Tank	1951
235BC	392	NE	Tanks	1968
236BD	393	E	Tanks	1932
237BD	393	E	Tanks	1951
238BD	394	E	Tanks	1951
239BD	394	E	Tanks	1968
240AA	397	NE	Tanks	1951
241BE	398	E	Settling Tanks	1968
242BE	398	E	Settling Tanks	1951
243BD	398	E	Tanks	1951
244BD	399	E	Tanks	1951
245BD	399	E	Tanks	1968
246AA	399	NE	Tanks	1951
247BC	399	NE	Unspecified Tank	1951
248AA	400	NE	Tanks	1968
249AA	400	NE	Tanks	1951
250BE	400	E	Settling Tanks	1951
251BE	400	E	Settling Tanks	1983
252AA	400	NE	Tanks	1932
253BB	400	NE	Unspecified Tank	1951
254BB	400	NE	Unspecified Tank	1951
255BF	401	NE	Unspecified Tank	1968
256BF	401	NE	Unspecified Tank	1951
257	403	NE	Unspecified Tank	1968
258BA	405	E	Unspecified Tank	1951
259BA	405	E	Unspecified Tank	1983
260BA	405	E	Unspecified Tank	1951
261BA	405	E	Unspecified Tank	1968
262AA	406	NE	Tanks	1951
263AA	406	NE	Tanks	1951
264AA	408	NE	Tanks	1951
265AF	409	E	Unspecified Tank	1932
266BG	411	NE	Tanks	1968
267BG	411	NE	Tanks	1951
268BF	414	NE	Tanks	1968
269AF	418	E	Tanks	1932
270BF	420	NE	Tanks	1951
271BF	420	NE	Tanks	1951
272BH	421	NE	Tanks	1932
273BF	422	NE	Tanks	1968
274BF	423	NE	Tanks	1951
275BF	424	NE	Tanks	1951
276BH	427	NE	Tanks	1951
277BH	430	NE	Tanks	1968
278BH	430	NE	Tanks	1951

279BH	432	NE	Unspecified Tank	1951
280BH	434	NE	Unspecified Tank	1968
281BH	434	NE	Unspecified Tank	1951
282BI	435	E	Settling Tanks	1951
283BI	435	E	Settling Tanks	1968
284Z	436	NE	Tanks	1981
285Z	436	NE	Tanks	1951
286Z	436	NE	Tanks	1968
287Z	437	NE	Tanks	1951
288BL	437	N	Tanks	1932
289BI	438	E	Settling Tanks	1951
290BJ	440	NE	Tanks	1951
291BJ	440	NE	Tanks	1951
292BJ	441	NE	Tanks	1951
293BK	442	NE	Tanks	1951
294BK	442	NE	Tanks	1951
295Z	442	NE	Tanks	1951
296Z	443	NE	Unspecified Tank	1951
297Z	443	NE	Unspecified Tank	1968
298Z	444	NE	Tanks	1951
299BL	444	N	Tanks	1932
300BK	444	NE	Tanks	1968
301BK	444	NE	Tanks	1951
302BL	444	N	Tanks	1932
303BJ	444	NE	Tanks	1951
304Z	445	NE	Tanks	1951
305Z	445	NE	Tanks	1951
306Z	445	NE	Tanks	1951
307BM	445	NE	Unspecified Tank	1951
308BK	445	NE	Unspecified Tank	1951
309CI	445	E	Tanks	1951
310Z	446	E	Tanks	1968
311Z	446	E	Tanks	1951
312BK	448	NE	Unspecified Tank	1951
313BK	448	NE	Unspecified Tank	1968
314BM	448	NE	Unspecified Tank	1968
315BM	448	NE	Unspecified Tank	1951
316AE	450	NE	Unspecified Tank	1951
317BK	452	NE	Unspecified Tank	1951
318AE	453	NE	Unspecified Tank	1968
319AE	453	NE	Unspecified Tank	1951
320BK	454	NE	Unspecified Tank	1951
321BK	454	NE	Unspecified Tank	1968
322BN	455	NE	Unspecified Tank	1922
323BO	456	NE	Tanks	1951
324BO	456	NE	Tanks	1968

325AE	457	NE	Tanks	1951
326AE	459	NE	Tanks	1951
327AE	460	NE	Tanks	1968
328AE	460	NE	Tanks	1951
329BO	462	NE	Tanks	1951
330BS	464	E	Tanks	1932
331BP	466	E	Tanks	1951
332BP	466	E	Tanks	1968
333BP	466	E	Tanks	1951
334BQ	467	N	Unspecified Tank	1951
335BQ	471	N	Unspecified Tank	1951
336BQ	471	N	Unspecified Tank	1968
337BO	471	NE	Tanks	1951
338BP	471	E	Tanks	1951
339BO	474	NE	Tanks	1951
340BO	474	NE	Tanks	1968
341BP	474	E	Tanks	1951
342BR	475	NE	Unspecified Tank	1951
343BP	477	E	Tanks	1951
344BR	478	NE	Unspecified Tank	1951
345BR	478	NE	Unspecified Tank	1968
346BS	478	E	Tanks	1951
347BS	478	E	Tanks	1968
348BS	479	E	Tanks	1951
349	479	W	Unspecified Tank	1909
350BT	479	E	Tanks	1951
351BT	480	E	Tanks	1968
352BT	480	E	Tanks	1951
353BU	481	E	Tanks	1968
354BU	481	E	Tanks	1951
355AC	482	E	Tanks	1951
356BV	484	NE	Unspecified Tank	1951
357BV	484	NE	Unspecified Tank	1951
358BS	488	E	Unspecified Tank	1968
359BS	488	E	Unspecified Tank	1951
360BS	489	E	Unspecified Tank	1951
361BW	491	NE	Tanks	1951
362BU	491	E	Tanks	1951
363BU	491	E	Tanks	1968
364BU	492	E	Tanks	1951
365BW	493	NE	Tanks	1968
366BW	493	NE	Tanks	1951
367BP	495	E	Unspecified Tank	1968
368BP	495	E	Unspecified Tank	1951
369BP	495	E	Unspecified Tank	1951
370	495	E	Tanks	1932

371BX	498	SE	Unspecified Tank	1951
372BX	498	SE	Unspecified Tank	1968
373BP	499	E	Tanks	1951
374BY	499	E	Tanks	1968
375BY	499	E	Tanks	1951
376	499	NE	Tanks	1932
377BX	500	SE	Unspecified Tank	1951

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 58

ID	Distance (m)	Direction	Use	Date
378BZ	54	SE	Electricity Substation	1986
379BZ	54	SE	Electricity Substation	1998
380BZ	54	SE	Electricity Substation	1994
381BZ	54	SE	Electricity Substation	1992
382BZ	55	SE	Electricity Substation	1973
383CA	59	N	Electricity Substation	1986
384CA	60	N	Electricity Substation	1992
385CA	60	N	Electricity Substation	1994
386CB	83	W	Electricity Substation	1992
387CB	83	W	Electricity Substation	1994
388CB	83	W	Electricity Substation	1998
389	110	N	Electricity Substation	1998
390CC	138	N	Electricity Substation	1998
391CC	138	N	Electricity Substation	1994
392CD	169	S	Electricity Substation	1998
393CD	169	S	Electricity Substation	1992
394CD	169	S	Electricity Substation	1994
395CE	187	E	Electricity Substation	1998
396CE	187	E	Electricity Substation	1992
397CE	188	E	Electricity Substation	1983
398CF	262	N	Electricity Substation	1973
399CF	263	N	Electricity Substation	1984
400CF	263	N	Electricity Substation	1951
401CF	266	N	Electricity Substation	1968
402CG	290	NE	Electricity Substation	1981
403CG	291	NE	Electricity Substation	1989
404CG	293	NE	Electricity Substation	1951
405CG	296	NE	Electricity Substation	1968

406CG	296	NE	Electricity Substation	1951
407CH	371	W	Electricity Substation	1969
408CH	371	W	Electricity Substation	1993
409CH	372	W	Electricity Substation	1968
410CH	372	W	Electricity Substation	1951
411CH	373	W	Electricity Substation	1984
412BA	397	E	Electricity Substation	1968
413BA	397	E	Electricity Substation	1951
414BA	397	E	Electricity Substation	1951
415BA	397	E	Electricity Substation	1983
416BG	432	NE	Electricity Substation	1951
417BG	436	NE	Electricity Substation	1951
418BG	436	NE	Electricity Substation	1968
419CI	455	E	Electricity Substation	1951
420CI	455	E	Electricity Substation	1983
421CI	456	E	Electricity Substation	1968
422CI	456	E	Electricity Substation	1951
423CJ	473	N	Electricity Substation	1993
424CJ	476	N	Electricity Substation	1984
425CJ	477	N	Electricity Substation	1973
426BX	481	SE	Electricity Substation	1983
427BX	481	SE	Electricity Substation	1992
428BX	481	SE	Electricity Substation	1998
429CK	486	S	Electricity Substation	1995
430CK	486	S	Electricity Substation	1996
431CK	486	S	Electricity Substation	1994
432CK	487	S	Electricity Substation	1987
433CL	488	NE	Electricity Substation	1951
434CL	490	NE	Electricity Substation	1951
435CL	490	NE	Electricity Substation	1968

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 1

ID	Distance (m)	Direction	Use	Date
436	231	NW	Garage	1968

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 70

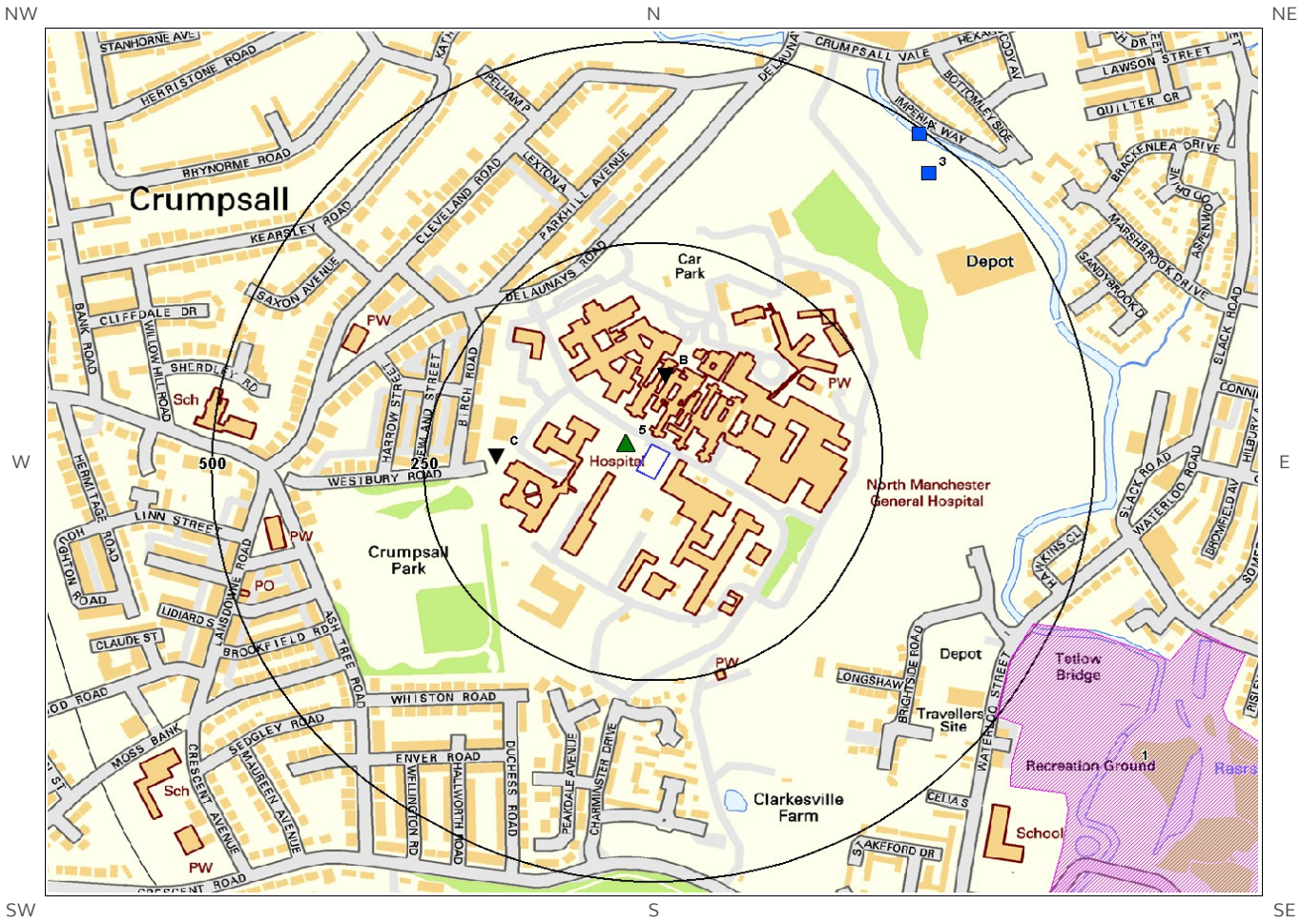
The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
437CM	187	SW	Unspecified Pit	1985
438H	206	E	Unspecified Ground Workings	1923
439H	207	E	Unspecified Heap	1915
440H	207	E	Unspecified Heap	1933
441I	207	SW	Unspecified Ground Workings	1906
442I	207	SW	Unspecified Ground Workings	1915
443CN	211	E	Unspecified Ground Workings	1956
444J	223	E	Unspecified Ground Workings	1956
445J	223	E	Unspecified Ground Workings	1975
446J	223	E	Unspecified Ground Workings	1980
447J	223	E	Unspecified Ground Workings	1966
448K	226	S	Cemetery	1968
449K	226	S	Cemetery	1956
450K	226	S	Cemetery	1977
451K	230	S	Cemetery	1906
452K	230	S	Cemetery	1915

453K	232	S	Cemetery	1933
454K	232	S	Cemetery	1938
455K	237	S	Cemetery	1891
456M	259	SE	Cemetery	1975
457M	259	SE	Cemetery	1980
458M	259	SE	Cemetery	1988
459CO	270	SE	Cemetery	1985
460CP	278	NE	Filter Beds	1906
461CQ	290	W	Brick Works	1891
462P	297	NE	Refuse Heap	1975
463Q	307	SW	Unspecified Ground Workings	1915
464P	308	NE	Refuse Heap	1956
465P	308	NE	Refuse Heap	1966
466Q	315	SW	Unspecified Ground Workings	1923
467Y	337	NE	Refuse Heap	1915
468CR	337	NW	Unspecified Ground Workings	1906
469Q	340	SW	Unspecified Ground Workings	1906
470BC	351	NE	Filter Beds	1906
471Y	365	NE	Filter Bed	1923
472Y	370	NE	Pond	1933
473Y	370	NE	Filter Bed	1915
474Y	370	NE	Pond	1938
475Y	371	NE	Filter Beds	1906
476CS	377	S	Pond	1956
477CS	377	S	Pond	1985
478CS	377	S	Pond	1977
479CS	377	S	Pond	1968
480CS	379	S	Pond	1915
481Z	386	NE	Refuse Heap	1923
482BJ	386	NE	Refuse Heap	1915
483CS	387	S	Pond	1933
484CS	387	S	Pond	1923
485AB	390	NE	Refuse Heap	1933
486BJ	391	NE	Unspecified Heap	1906
487Z	392	NE	Refuse Heap	1938
488CT	394	SW	Unspecified Ground Workings	1906
489BL	403	N	Reservoir	1891
490BL	407	N	Reservoir	1923
491AE	408	NE	Unspecified Pit	1891
492BL	408	N	Ponds	1851
493BL	413	N	Reservoir	1915
494BL	413	N	Reservoir	1906

495BG	413	NE	Unspecified Heap	1891
496CU	461	N	Unspecified Ground Workings	1906
497BN	475	NE	Ponds	1923
498BN	475	NE	Unspecified Heap	1906
499CV	483	S	Unspecified Ground Workings	1956
500AL	483	S	Unspecified Ground Workings	1968
501AK	485	S	Unspecified Ground Workings	1985
502AK	485	S	Unspecified Ground Workings	1977
503	488	S	Pond	1851
504AK	490	S	Unspecified Heap	1938
505AK	492	S	Unspecified Heap	1933
506AN	499	NE	Ponds	1891

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

1

The following Red List Discharge Consent records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
2A	494	NE	385199 402699	Address: QDS ENVIRONMENTAL LIMITED, HEXAGON TOWER MAIN CAR PARK, CRUMPSALL VALE, BLACKLEY, MANCHESTER, M9 8EP Permit Number: NPSWQD002604 Permit Version: 1 Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)	Discharge Type: Mobile Plant Effluent Type: TRADE DISCHARGES - UNSPECIFIED Catchment: RIVER IRK Approval Date: 21-May-2008

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
5	26	NW	384853 402313	Address: North Manchester General Hopital, Central Drive, Dlaunays Road, Crumpsall, M8 6RL Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

---

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

8

The following RAS Licence (3 or 4) records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
14B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital,delauneys Road,crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0701	Date of Approval:1/4/2002 Effective from:1/4/2002 Last date of update:2015-01-01	Superseded By Variation
15B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital,delauneys Road,crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0701	Date of Approval:6/1/2006 Effective from:6/1/2006 Last date of update:2015-01-01	Effective
16B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital, Delauneys Road, Crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AM9896	Date of Approval:27/7/1994 Effective from:27/8/1994 Last date of update:2015-01-01	Superseded By Variation

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
17B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital, Delauneys Road, Crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AM9896	Date of Approval:10/4/2002 Effective from:10/4/2002 Last date of update:2015-01-01	Superseded By Variation
18B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital, Delauneys Road, Crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AM9896	Date of Approval:13/5/1996 Effective from:13/5/1996 Last date of update:2015-01-01	Superseded By Variation
19B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital, Delauneys Road, Crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AM9896	Date of Approval:6/1/2006 Effective from:3/2/2006 Last date of update:2015-01-01	Effective
20B	88	N	384900 402400	Pennine Acute Hospitals Nhs Trust, North Manchester General Hospital, Delauneys Road, Crumpsall, Manchester, M8 6RB	Pennine Acute Hospitals Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AM9896	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Superseded By Variation
21C	166	W	384700 402300	North Manchester Healthcare Nhs Trust, Central Drive, Crumpsall, Manchester, M8 6RL	North Manchester Healthcare Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AB9631	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Revoked/cancelled

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

2

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
3	463	NE	385210 402650	Address: HEXAGON TOWER MAIN CAR PARK, CRUMPSALL VALE, ., BLACKLEY, MANCHESTER, M9 8EP Effluent Type: GROUNDWATER - BOREHOLE Permit Number: NPSWQD000920	Receiving Water: GROUNDWATERS Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/05/2008 Effective Date: 21-May-2008

ID	Distance (m)	Direction	NGR	Details	
				Permit Version: 1	Revocation Date: 30/11/2008
4A	494	NE	385199 402699	Address: HEXAGON TOWER MAIN CAR PARK, CRUMPSALL VALE, ., BLACKLEY, MANCHESTER, M9 8EP Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: NPSWQD002604 Permit Version: 1	Receiving Water: RIVER IRK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/05/2008 Effective Date: 21-May-2008 Revocation Date: 30/11/2008

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

0

Database searched and no data found.

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: 0

Database searched and no data found.

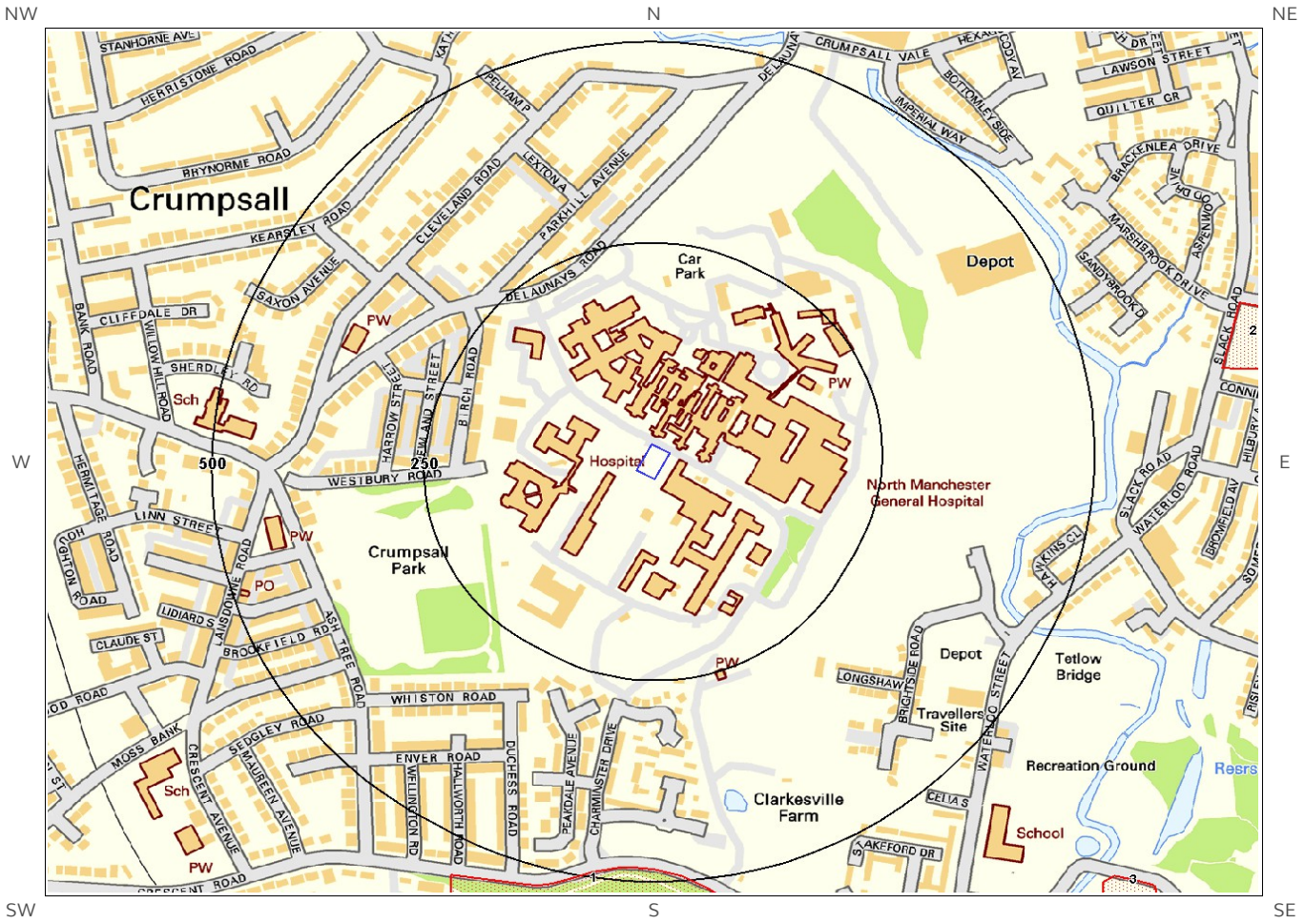
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site 1

The following records are represented as polygons on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Description	Location	Category	Year Identified
1	474	SE	385490 401764	Former mill ponds	Harpurhey Reservoir, Harpurhey Road, Manchester	Potentially Contaminated Land	N/A

3. Landfill and Other Waste Sites Map



Site Outline

250 / 500 Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

9

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
1	483	S		Site Address: Abraham Moss Centre, Crescent Road, Crumpsall, Manchester, Greater Manchester Waste Licence: - Site Reference: F016 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
2	659	E		Site Address: Land at Factory Lane, Blackley, Manchester, Greater Manchester Waste Licence: - Site Reference: F018 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
3	728	SE		Site Address: Land off Harpurhey Road, Harpurhey, Manchester, Greater Manchester Waste Licence: Yes Site Reference: F040,RD/LIC/672/90 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-May-1991 Licence Surrendered: Licence Holder Address: Off Kingsbridge Road, Collyhurst, Manchester Operator: - Licence Holder: Manchester City Council Planning Department First Recorded: - Last Recorded: -
Not shown	778	NW		Site Address: South of Blackley New Road, Blackley New Road, Crumpsall, Manchester, Greater Manchester Waste Licence: - Site Reference: F017 Waste Type: - Environmental Permitting Regulations	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: Earl of Wilton First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
				(Waste) Reference: -	
Not shown	834	N		Site Address: Land at Pike Fold Lane, Higher Blackley, Manchester, Greater Manchester Waste Licence: - Site Reference: F043 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1007	E		Site Address: Land at Bankfield Street, Blackley, Manchester, Greater Manchester Waste Licence: - Site Reference: F028 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1182	N		Site Address: Land at Riverdale Road, Riverdale Road, Crumpsall, Manchester, Greater Manchester Waste Licence: - Site Reference: F033 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1213	N		Site Address: Land at Tweedle Hill, Plant Hill Road, Higher Blackley, Manchester, Greater Manchester Waste Licence: - Site Reference: F002 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1288	NE		Site Address: Land off White Moss Road, White Moss Road, Blackley, Manchester, Greater Manchester Waste Licence: - Site Reference: F003 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

17

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
Not shown	690	S	384631 401577	Refuse Tip	1967 mapping	Polygon
Not shown	691	S	384631 401577	Refuse Tip	1967 mapping	Polygon
Not shown	803	S	384670 401475	Refuse Tip	1967 mapping	Polygon
Not shown	824	NW	384361 403060	Refuse Tip	1964 mapping	Polygon
Not shown	825	NW	384361 403060	Refuse Tip	1964 mapping	Polygon
Not shown	1067	SE	385513 401386	Refuse Tip	1962 mapping	Polygon
Not shown	1067	SE	385513 401386	Refuse Tip	1967 mapping	Polygon
Not shown	1321	N	385207 403641	Refuse Tip	1962 mapping	Polygon
Not shown	1322	N	385208 403641	Refuse Tip	1964 mapping	Polygon
Not shown	1337	N	385162 403660	Refuse Tip	1962 mapping	Polygon
Not shown	1337	N	385161 403660	Refuse Tip	1964 mapping	Polygon
Not shown	1426	N	385221 403757	Refuse Tip	1964 mapping	Polygon
Not shown	1427	N	385221 403756	Refuse Tip	1962 mapping	Polygon
Not shown	1447	N	385248 403794	Refuse Tip	1962 mapping	Polygon
Not shown	1448	N	385249 403795	Refuse Tip	1964 mapping	Polygon
Not shown	1498	N	385295 403786	Refuse Tip	1962 mapping	Polygon
Not shown	1498	N	385297 403787	Refuse Tip	1964 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

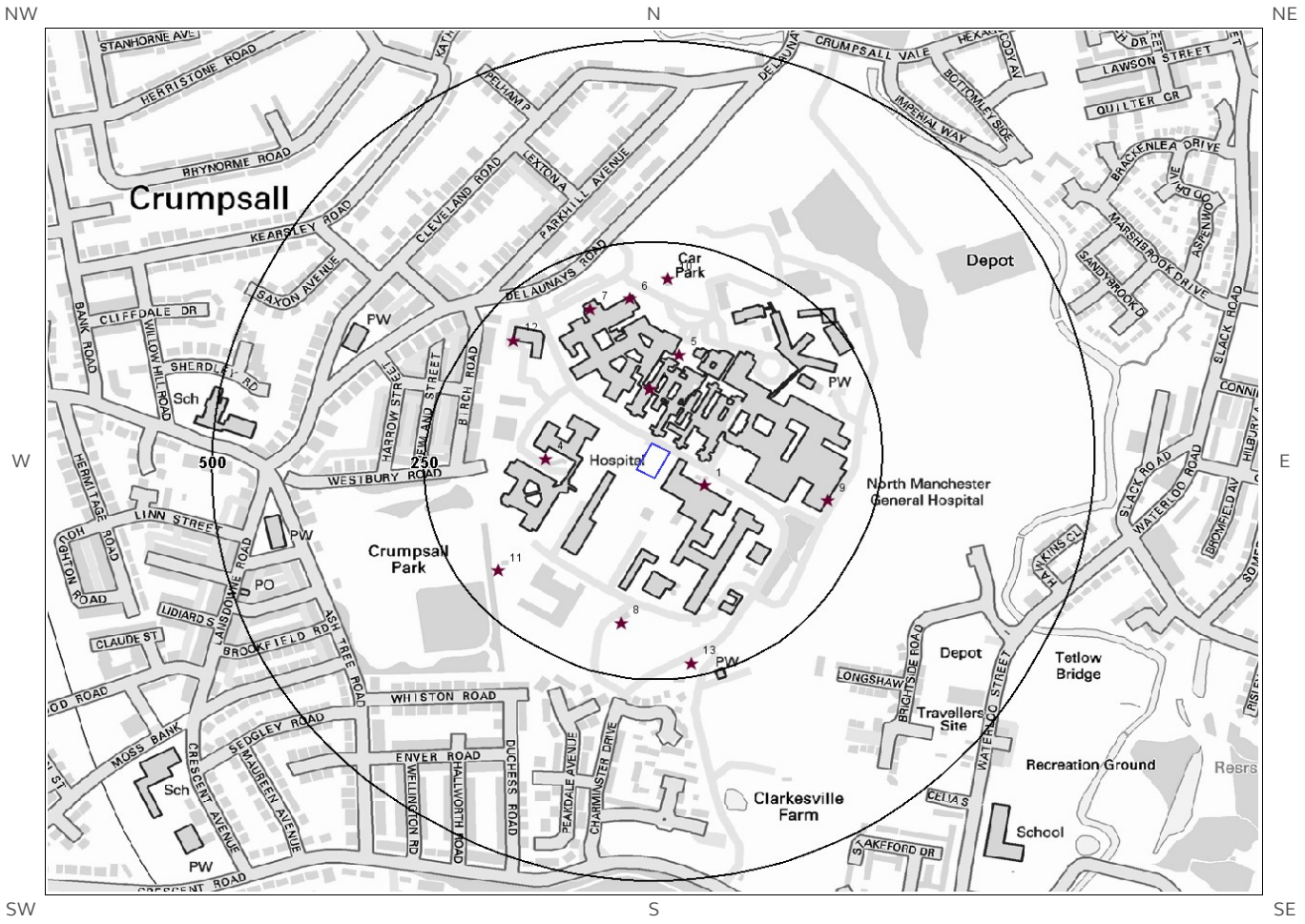
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

3

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
Not shown	989	SE	385372 401408	Site Address: Vale Park Ind Est, Unit 6-7, Hazelbottom Road, Crumpsall, Manchester, M8 0GF Type: 75kte HCl Waste TS + treatment Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAI011 EPR reference: EA/EPR/CB3100XM/A001 Operator: Wai Sang (Europe) Recycle Ltd Waste Management licence No: 401815 Annual Tonnage: 74900.0	Issue Date: 06/11/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wai Sang (Europe) Recycle Ltd Correspondence Address: -
Not shown	1091	SE	385440 401329	Site Address: Lancaster Works, Unit 5b, Kingsbridge Road, Harpurhey, Manchester, M9 5SP Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LON002 EPR reference: EA/EPR/AP3197SP/A001 Operator: Lonergan Steven Waste Management licence No: 50287 Annual Tonnage: 2500.0	Issue Date: 17/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Suspended Site Name: Lony's Ford & Vauxhall Breakers Correspondence Address: -
Not shown	1283	SE	385599 401203	Site Address: Lancaster Works, Unit 5b, Kingsbridge Road, Harpurhey, Manchester, M9 5SP Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LON002 EPR reference: - Operator: Lonergan Steven Waste Management licence No: 50287 Annual Tonnage: 2499.0	Issue Date: 17/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Lony's Ford & Vauxhall Breakers Correspondence Address: Lancaster Works, Unit 5b, Kingbridge Works, Harpurhey, Manchester, M9 5SP

4. Current Land Use Map



4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 13

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	54	SE	Electricity Sub Station	384945 402262	M8	Electrical Features	Infrastructure and Facilities
2A	68	N	North Manchester General Hospital	384880 402381	Delaunays Road, Manchester, M8 5RB	Hospitals	Health Practitioners and Establishments
3A	68	N	North Manchester M R I Centre	384880 402381	Delaunays Road, Manchester, M8 5RB	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
4	108	W	Electricity Sub Station	384758 402295	M8	Electrical Features	Infrastructure and Facilities
5	115	N	Electricity Sub Station	384915 402424	M8	Electrical Features	Infrastructure and Facilities
6	182	N	Electricity Sub Station	384858 402494	M8	Electrical Features	Infrastructure and Facilities
7	182	NW	North Manchester General Hospital	384811 402481	Delaunays Road, Manchester, M8 5RB	Accident and Emergency Hospitals	Health Practitioners and Establishments
8	183	S	Electricity Sub Station	384847 402091	M8	Electrical Features	Infrastructure and Facilities
9	194	E	Electricity Sub Station	385090 402243	M8	Electrical Features	Infrastructure and Facilities
10	205	N	Electricity Sub Station	384902 402518	M9	Electrical Features	Infrastructure and Facilities
11	205	SW	Electricity Sub Station	384703 402156	M8	Electrical Features	Infrastructure and Facilities
12	208	NW	Tank	384720 402442	M8	Tanks (Generic)	Industrial Features
13	233	S	Gas Governor Station	384930 402041	M8	Gas Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

---

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

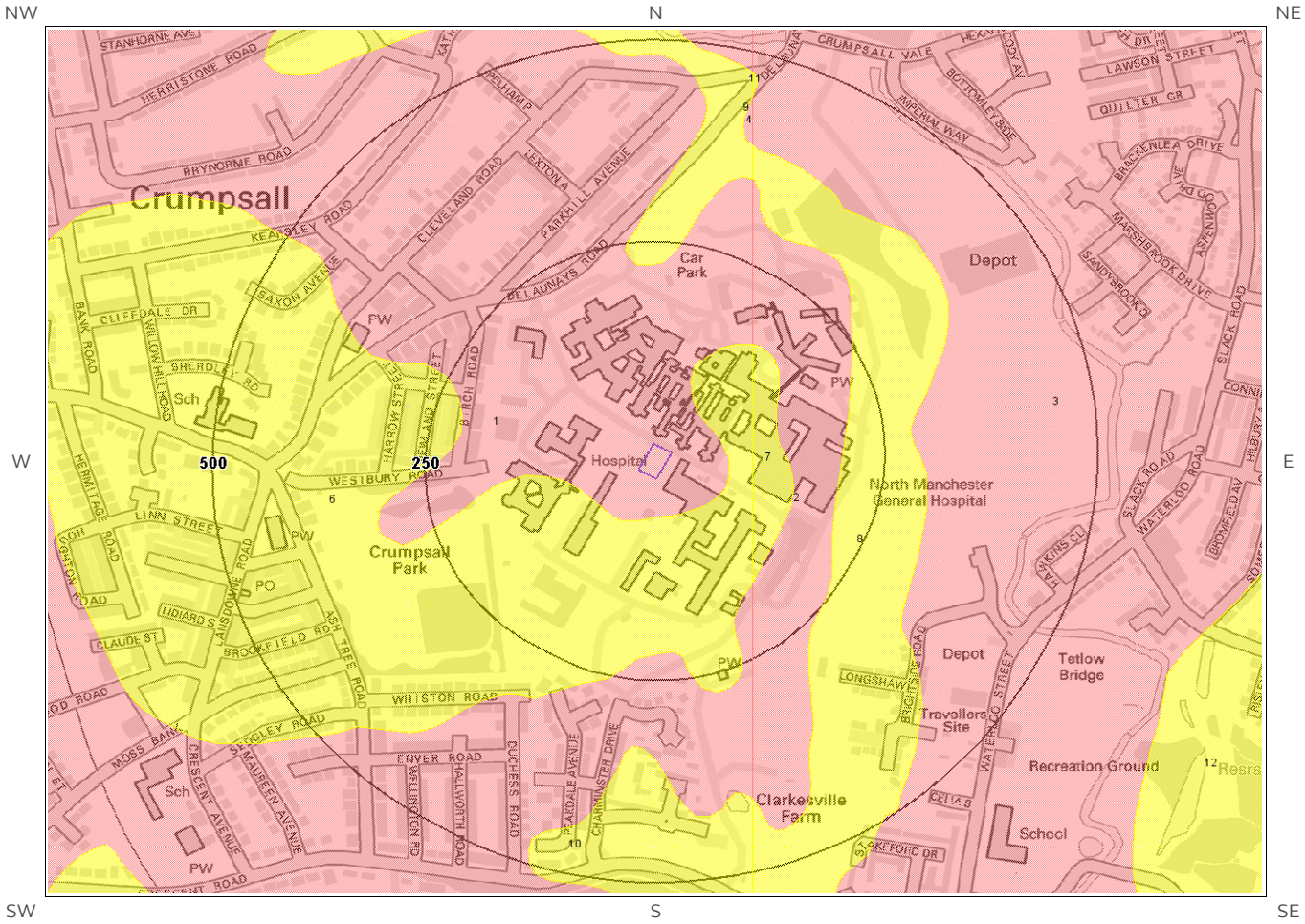
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
CHES-SDST	CHESTER FORMATION	SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

Search Buffers (m)
250
500

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

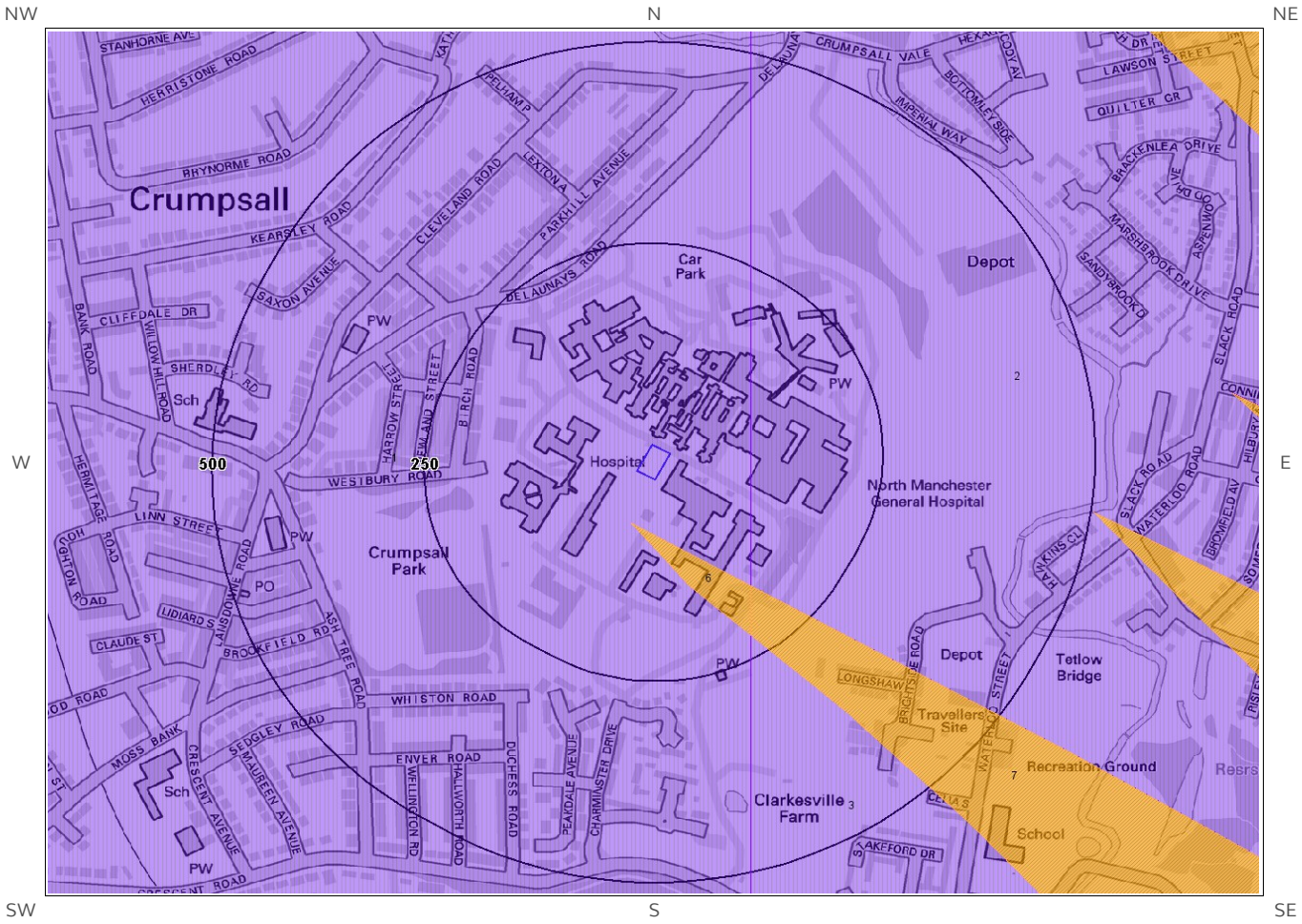
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licences



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

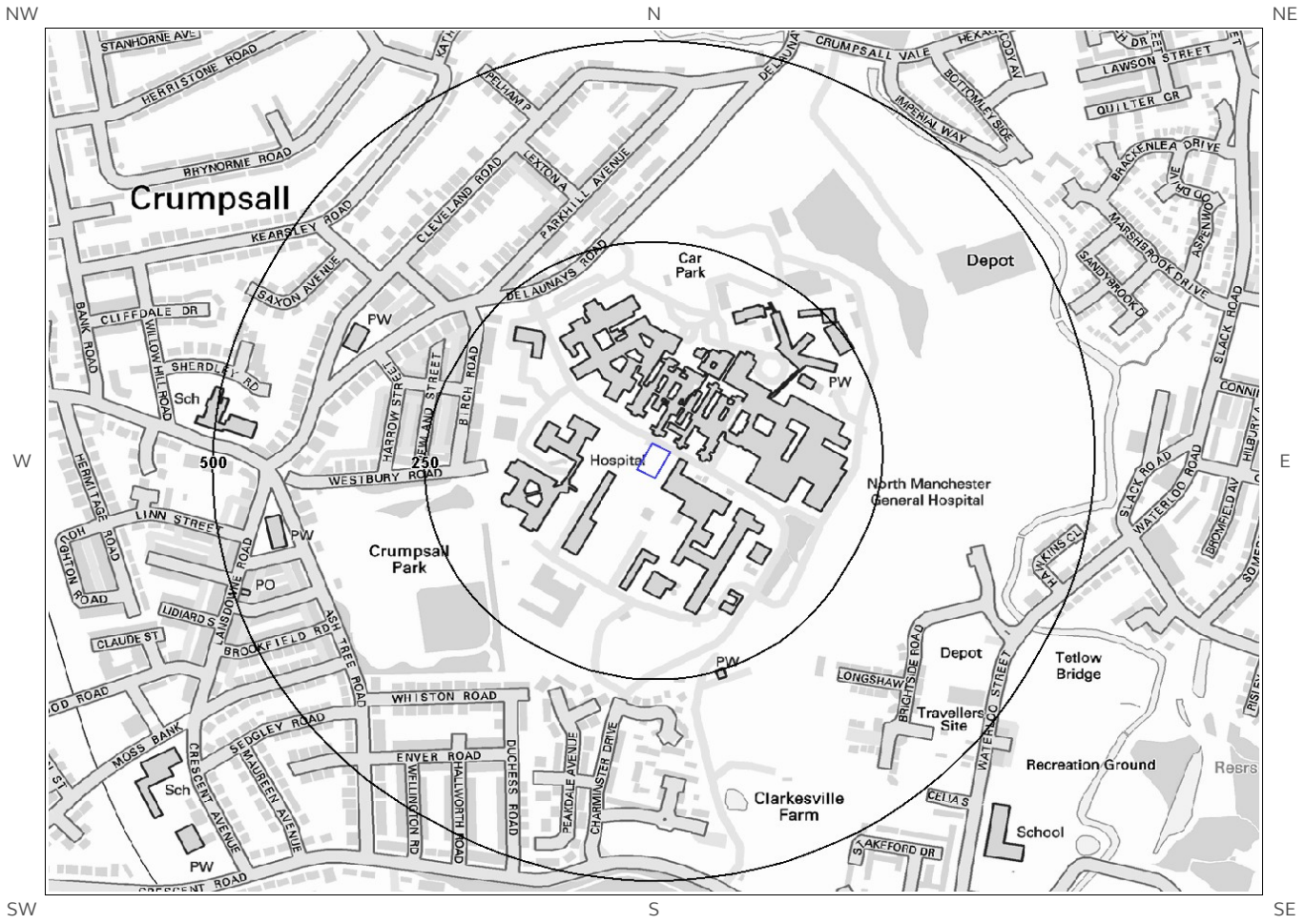
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

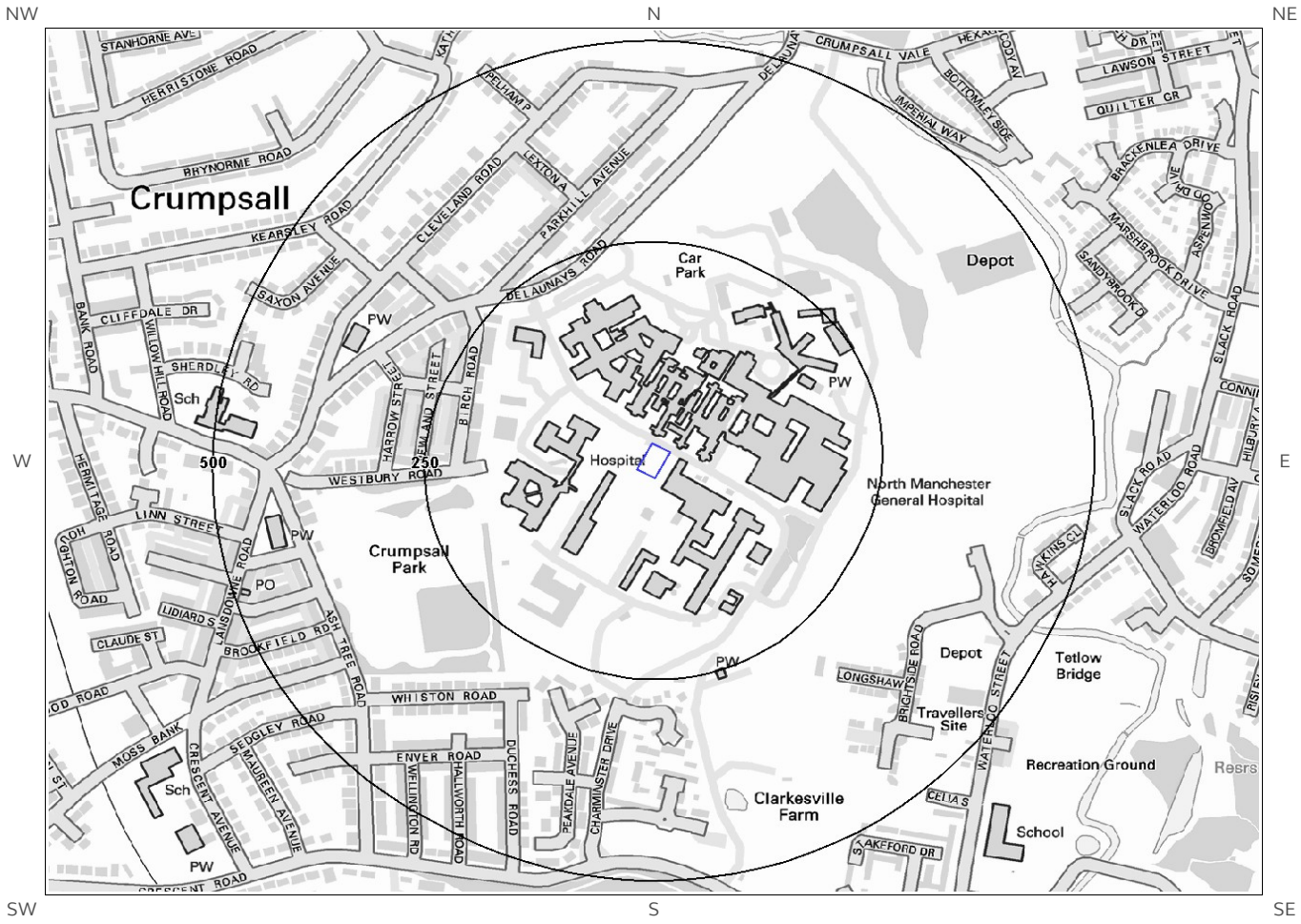
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Site Outline

250 — 500 — Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

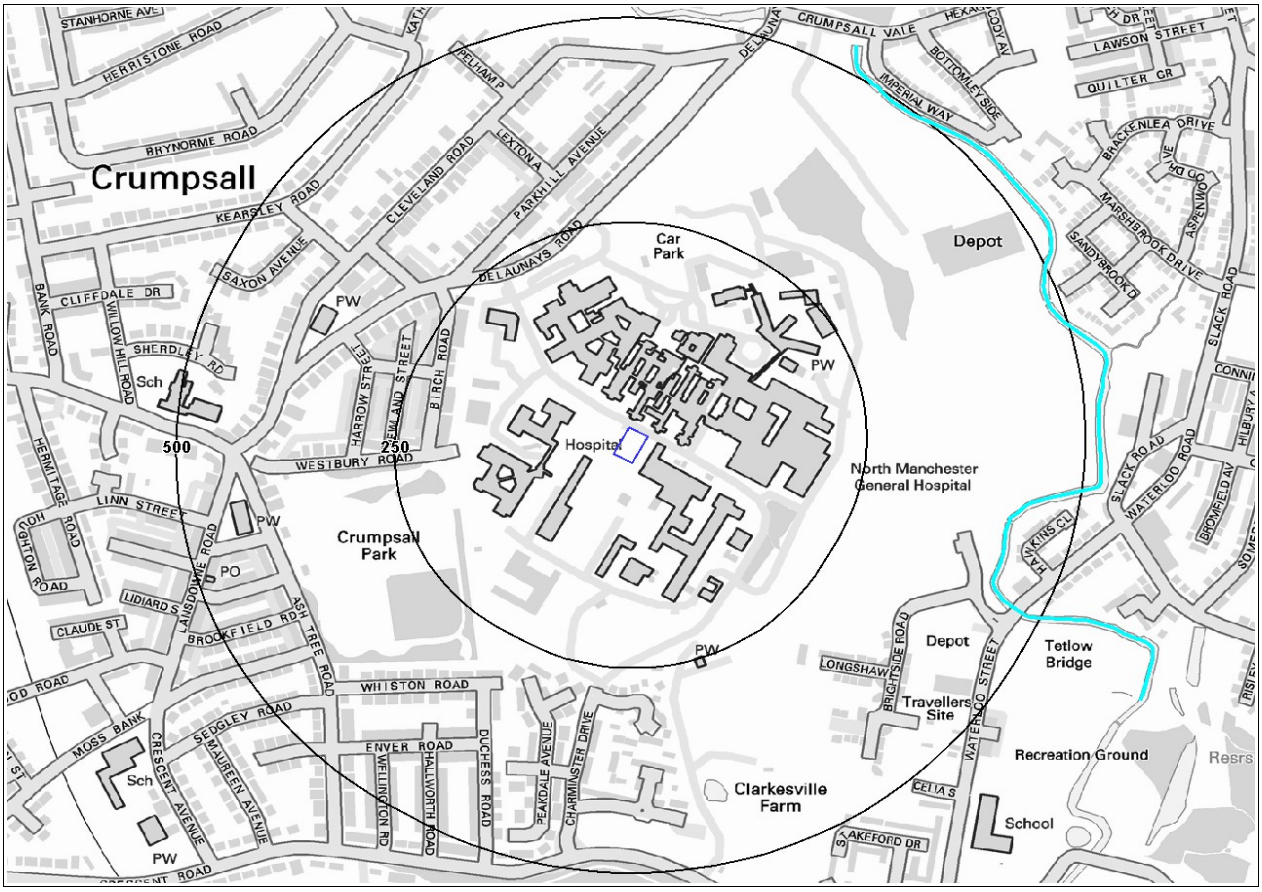
Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

6e. Hydrology – Watercourse Network and River Quality

NW N NE



W E

SW S SE

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Site Outline

250 / 500 Search Buffers (m)

Tidal River

Inland River

Underground or Elevated Tidal River

Underground or Elevated Inland River

Foreshore

General Quality Assessment: Chemistry

Canal

Underground or Elevated Canal

Lock or Flight of Locks

Lake, Reservoir, or Marsh

Drain or Transfer

General Quality Assessment: Biology

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	47	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	95	E	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	125	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	198	E	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	221	N	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
3	281	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	332	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	387	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
11	447	N	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
6	61	SW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	95	E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
7	173	SE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
3	223	SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	598	N	385000 402900	Status: Historical Licence No: 2569005012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BLACKLEY, MANCHESTER" Data Type: Point Name: AVECIA LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1999 Version End Date:
Not shown	598	N	385000 402900	Status: Historical Licence No: 2569005012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BLACKLEY, MANCHESTER Data Type: Point Name: AVECIA LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1999 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	636	N	384890 402950	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "2 BOREHOLES AT BLACKLEY, MANCHESTER" Data Type: Point Name: BELDEN (UK) LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date:
Not shown	636	N	384890 402950	Status: Active Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER Data Type: Point Name: BT Cables Limited	Annual Volume (m^3): 477271 Max Daily Volume (m^3): 1363 Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 105 Version Start Date: 09/10/2012 Version End Date:
Not shown	730	N	384610 402990	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "2 BOREHOLES AT BLACKLEY, MANCHESTER $121" Data Type: Point Name: BELDEN (UK) LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date:
Not shown	730	N	384610 402990	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER 121 Data Type: Point Name: BELDEN (UK) LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 03/04/2000 Version End Date:
Not shown	730	N	384610 402990	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER $121 Data Type: Point Name: BELDEN (UK) LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date:
Not shown	730	N	384610 402990	Status: Active Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 AT BLACKLEY MANCHESTER Data Type: Point Name: BT Cables Limited	Annual Volume (m^3): 477271 Max Daily Volume (m^3): 1363 Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 105 Version Start Date: 09/10/2012 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site	None identified

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site	None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site	None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site	None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
160	SE	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

					Chemical Quality Grade				
ID	Distance (m)	Direction	NGR	River Quality Grade	2005	2006	2007	2008	2009
Not shown	1208	S	385125 401085	River Name: Irk Reach: Wince Brook To Moston Bk. End/Start of Stretch: Sample Point NGR	C	C	C	C	C
Not shown	1436	W	383451 402034	River Name: Birkdale Beck Reach: Little Sleddale Beckriver Swale End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A
Not shown	1436	W	383451 402034	River Name: Birkdale Beck Reach: Lodge Hags Little Sleddale Beck End/Start of Stretch: End of Stretch NGR	A	A	A	A	A

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

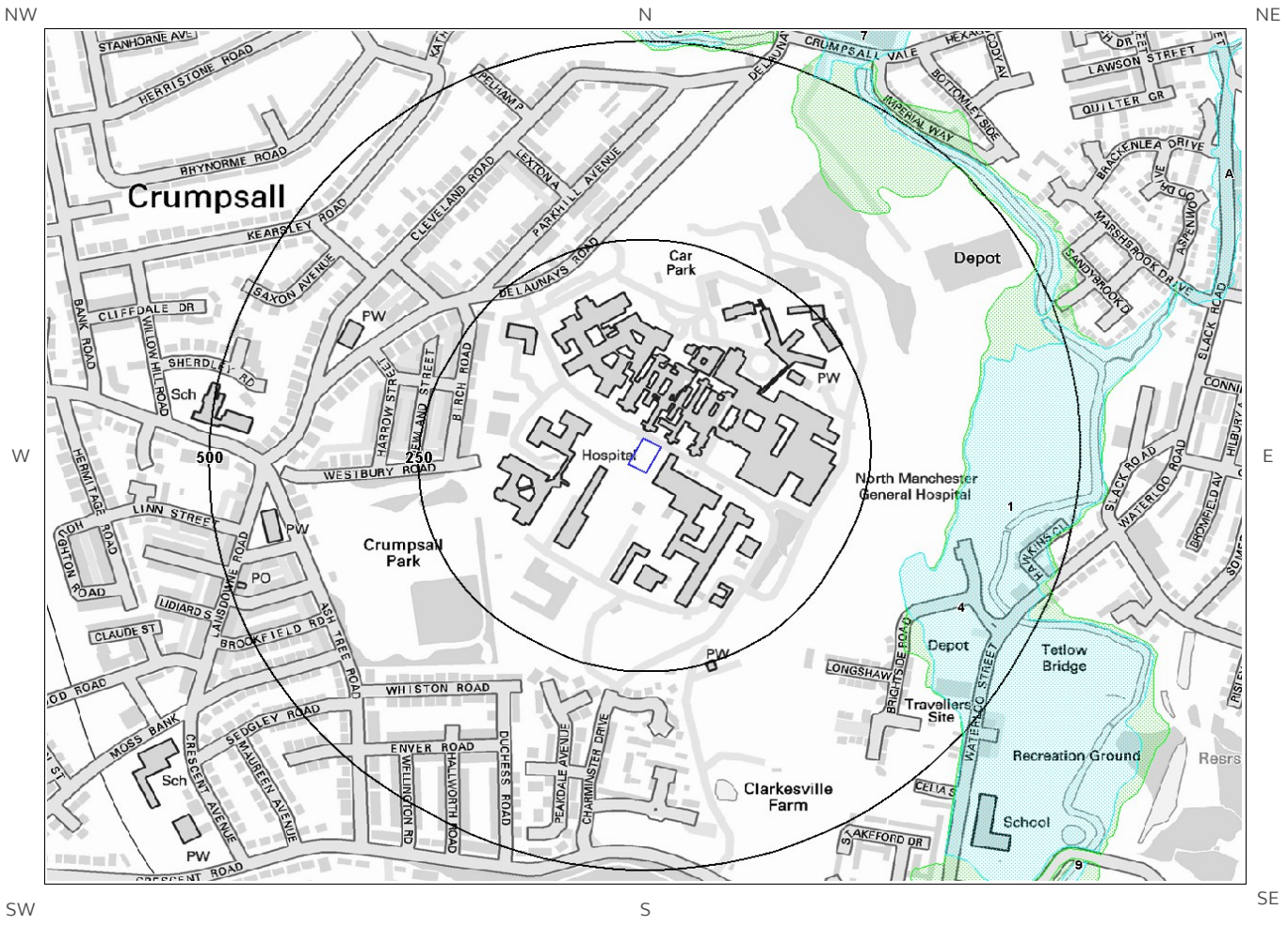
ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	425 E	River Irk	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.9
Not shown	425 E	River Irk	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.9
2	486 E	River Irk	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.7
Not shown	486 E	River Irk	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.7

6.11 Surface Water Features

Surface water features within 250m of the study site — None identified

Database searched and no data found.

7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

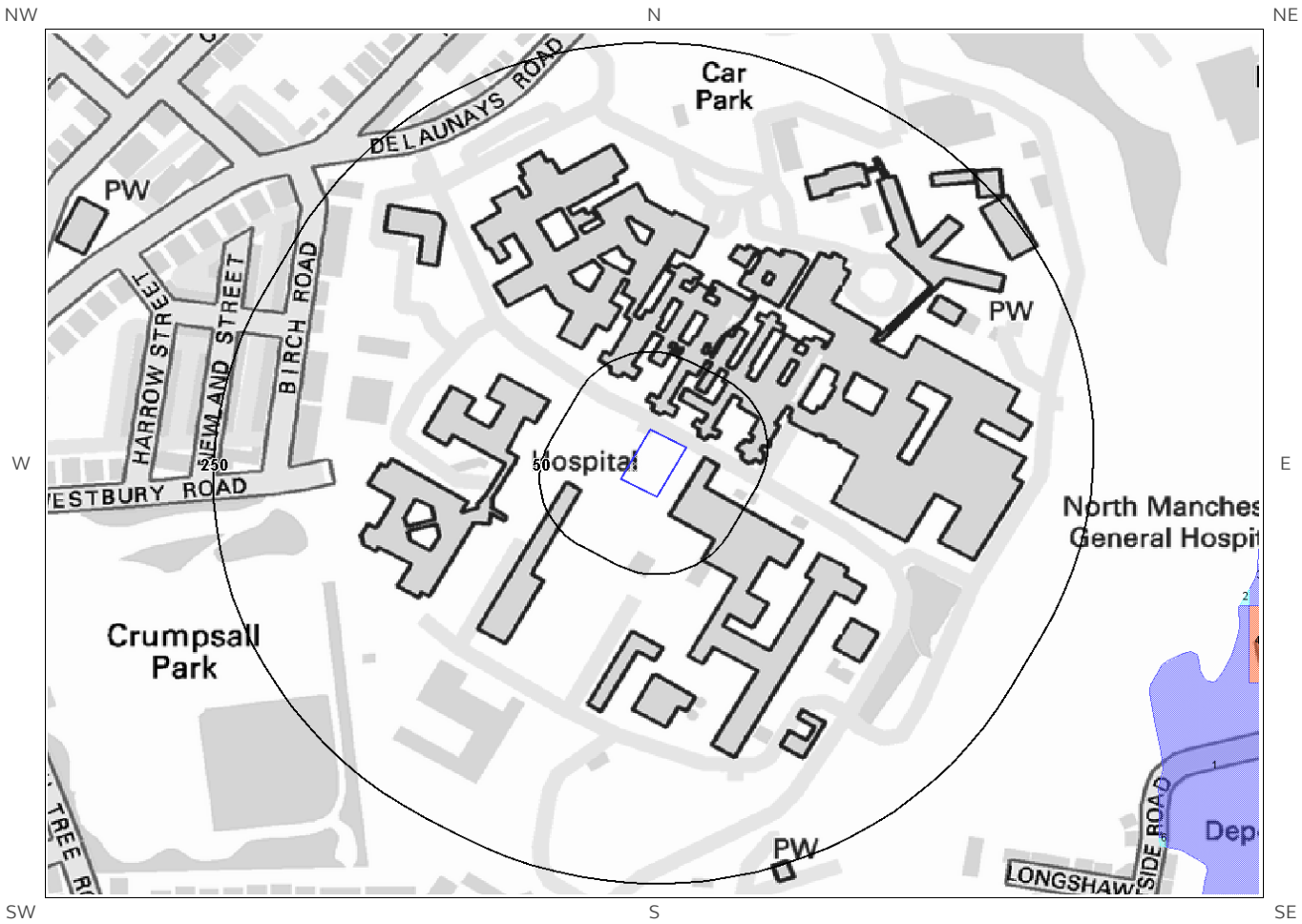
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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Site Outline

100
250
Search Buffers (m)

RoFRaS Rating

Very Low

Low

Medium

High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m — None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m — None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite — Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Flood Defences within 250m of the study site — None identified

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site — None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site	None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site	Identified
Clearwater Flooding or Superficial Deposits Flooding	Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

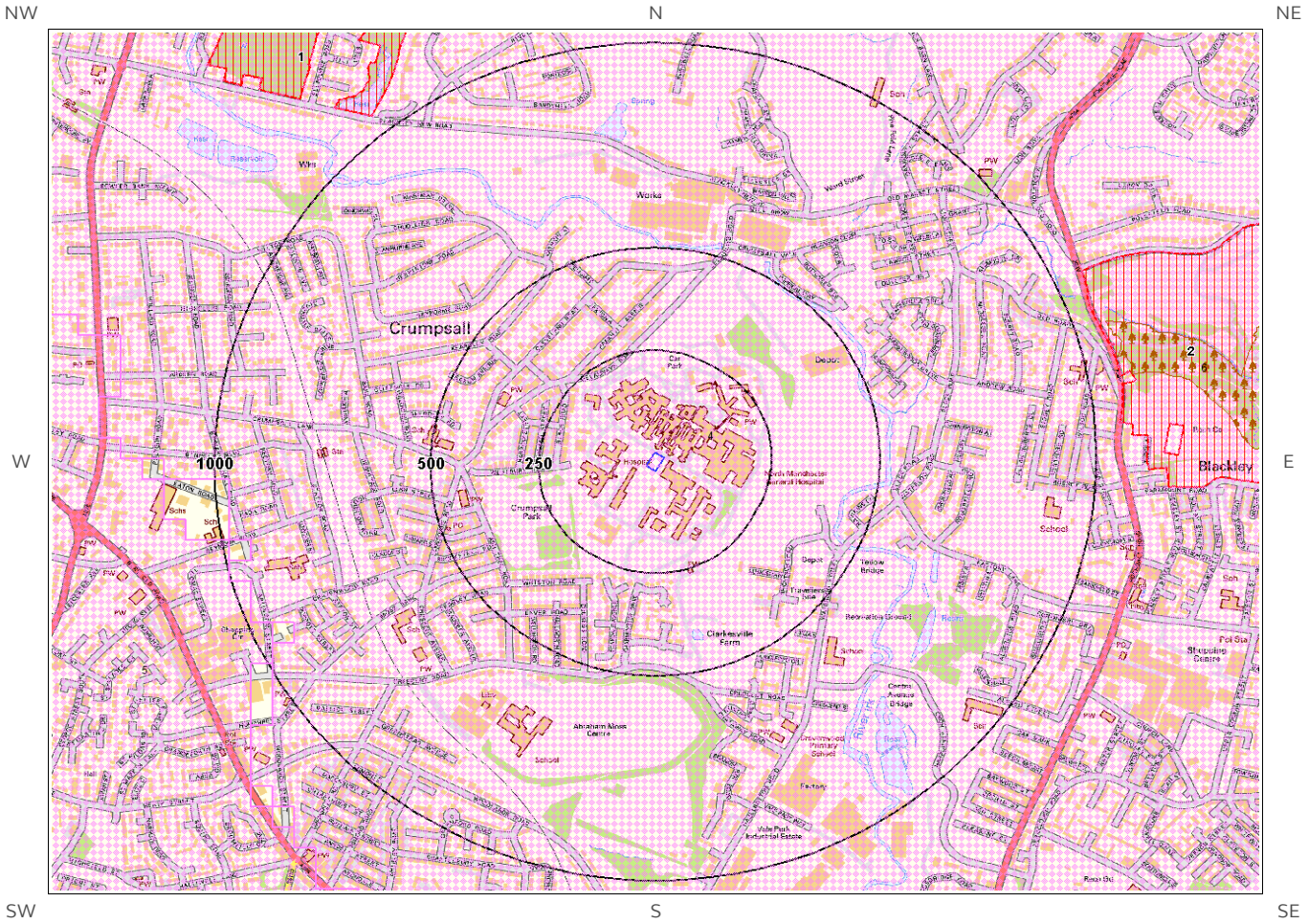
7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result	Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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Site Outline

100

250

Search Buffers (m)

AONB

National Park

SSSI

Special Protection Areas

Nitrate Vulnerable Zones

Green Belt

Environmentally Sensitive Areas

Special Areas of Conservation

World Heritage Sites

Nitrate Sensitive Areas

Ancient Woodland

National Nature Reserve

Local Nature Reserves

Ramsar Sites

8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

2

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
6	1075	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1590	NE	UNKNOWN	Ancient and Semi-Natural Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

3

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	1049	NW	Blackley Forest	Natural England
2	1053	E	Boggart Hole Clough	Natural England
Not shown	1939	NW	Blackley Forest	Natural England

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

2

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
4	0	On Site	Existing	DEFRA
5	946	SW	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

1

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
Not shown	1764	NW	Liverpool, Manchester and West Yorks Greenbelt	Manchester District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

* This indicates an automatically generated 50m buffer and site.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site — Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary — None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site — None identified
Guidance: No Guidance Required.

Contact Details

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